

# Register Measuring System LUCHS III

Automatic evaluation of special register marks, thus being more objective and faster than and vernier measurement with a hand-held line-tester. The device measures the longitudinal and lateral register of up to 10 printing units.

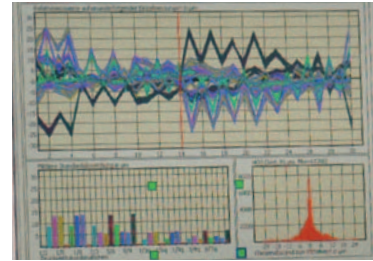


Polygraphische innovative  
Technik Leipzig



# Register Measuring System

## LUCHS III



### Working principle

The LUCHS measures the transfer, feeding and machine register and as an option also the position, perfecting and folding register as well as the print length (distance between two measuring marks with the help of a scale). A variety of user-defined measuring protocols is created.

A measuring operation is effected within a time of 1 second. The automatic evaluation is carried out while the measuring head is already positioned anew.



Together with SID Leipzig (Sächsisches Institut für die Druckindustrie GmbH) PITSID develops measuring and testing devices for the graphic arts industry.

Our present range of products comprises devices for the measurement and test of pressure and gap, register, UV-ink curing, IPA alcohol concentration, packing height and plate punching.

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### Technical data

#### Measuring uncertainty

< 5  $\mu\text{m}$

< 2  $\mu\text{m}$  (provided the measuring instructions are followed and the print quality is good)

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#### Data logging/computation

Simultaneous register measurement in longitudinal and lateral direction, complete evaluation of up to 10 printing units with one measurement.

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#### Operation

Completely controllable through coding (the measuring head works as a kind of bar code reader), control software with graphic user interface implemented on Windows 9x/2000/XP/Windows 7

„Automatic measurement“ means:

- automatic recognition of the measuring area
- automatic recognition of the printing unit
- automatic recognition of the measuring operation

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#### Measuring principles

Analysis of video images with highly effective mathematical methods including the correction of slur and doubling.

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#### Output of results

Freely programmable data interface:

- Protocol interpreter for the generation of ASCII data
- Generation of „automatic graphic protocols“
- Copying of measured data into files/the intermediate storage
- Output via standard printer
- Automatic start of standard software or batch files through command lines

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#### Components of the system

Portable efficient computer with special hardware and software, Measuring head and cable integrated into the PC housing, network connection, USB interface.

Carrying case.

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#### Measuring head

Dimensions (W x H x D): 143 x 80 x 62 mm

Weight: 500 g

Voltage supply and

power consumption: 12 V DC / 200 mA